

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/590,691
Source: IFWP
Date Processed by STIC: 9/6/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/590,691

CRF Edit Date: 9/6/06
Edited by: AW

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ Other: Sequence 12-corrected amino acid numbering



IFWP

RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/590,691

TIME: 15:07:33

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590691.raw

3 <110> APPLICANT: Lepist, Matti
 4 Pawlowski, Kryzysztof
 6 <120> TITLE OF INVENTION: Methods for Identifying Compounds Capable of Modulating the
 7 Hydrolase Activity of CLCA Protein
 9 <130> FILE REFERENCE: 06275-519US1
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/590,691
 C--> 11 <141> CURRENT FILING DATE: 2006-08-25
 11 <150> PRIOR APPLICATION NUMBER: PCT/SE2005/000316
 12 <151> PRIOR FILING DATE: 2005-03-03
 14 <150> PRIOR APPLICATION NUMBER: SE 0400564-1
 15 <151> PRIOR FILING DATE: 2004-03-05
 17 <160> NUMBER OF SEQ ID NOS: 44
 19 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 302
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Bos taurus
 27 <400> SEQUENCE: 1
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 29 1 5 10 15
 30 Val Asn Leu Ile Asn Asn Gly Tyr Asp Gly Ile Val Ile Ala Ile Asn
 31 20 25 30
 32 Pro Ser Val Pro Glu Asp Glu Lys Leu Ile Glu Asn Ile Lys Glu Met
 33 35 40 45
 34 Val Thr Glu Ala Ser Thr Tyr Leu Phe His Ala Thr Lys Arg Arg Val
 35 50 55 60
 36 Tyr Phe Arg Asn Val Ser Ile Leu Ile Pro Met Thr Trp Lys Ser Lys
 37 65 70 75 80
 38 Ser Glu Tyr Phe Ile Pro Lys Gln Glu Ser Tyr Asp Gln Ala Asp Val
 39 85 90 95
 40 Ile Val Ala Asn Pro Tyr Leu Lys Tyr Gly Asp Asp Pro Tyr Thr Leu
 41 100 105 110
 42 Gln Tyr Gly Arg Cys Gly Glu Lys Gly Lys Tyr Ile His Phe Thr Pro
 43 115 120 125
 44 Asn Phe Leu Leu Thr Asn Asn Phe His Ile Tyr Gly Ser Arg Gly Arg
 45 130 135 140
 46 Val Phe Val His Glu Trp Ala His Leu Arg Trp Gly Ile Phe Asp Glu
 47 145 150 155 160
 48 Tyr Asn Val Asp Gln Pro Phe Tyr Ile Ser Arg Lys Asn Thr Ile Glu
 49 165 170 175
 50 Ala Thr Arg Cys Ser Thr His Ile Thr Gly Ile Asn Val Val Phe Lys
 51 180 185 190
 52 Lys Cys Pro Gly Gly Ser Cys Ile Thr Ser Leu Cys Arg Arg Asp Ser

see p. 6

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Input Set : A:\PTO.AMC.txt

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53          195          200          205
54 Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr Phe Leu Pro Lys Lys Ser
55          210          215          220
56 Gln Thr Ala Lys Glu Ser Ile Met Phe Met Pro Ser Leu His Ser Val
57 225          230          235          240
58 Thr Glu Phe Cys Thr Glu Lys Thr His Asn Thr Glu Ala Pro Asn Leu
59          245          250          255
60 Gln Asn Lys Met Cys Asn Gly Lys Ser Thr Trp Asp Val Ile Met Asn
61          260          265          270
62 Ser Val Asp Phe Gln Asn Thr Ser Pro Met Thr Glu Met Asn Pro Pro
63          275          280          285
64 Thr His Pro Thr Phe Ser Leu Lys Ser Lys Gln Arg Val
65          290          295          300
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69 <211> LENGTH: 306
70 <212> TYPE: PRT
71 <213> ORGANISM: Homo sapiens
73 <400> SEQUENCE: 2
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76 Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
77          20          25          30
78 Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
79          35          40          45
80 Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu
81          50          55          60
82 Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu
83 65          70          75          80
84 Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu
85          85          90          95
86 Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro
87          100          105          110
88 Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys
89          115          120          125
90 Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu
91          130          135          140
92 Ala Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His
93 145          150          155          160
94 Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
95          165          170          175
96 Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr
97          180          185          190
98 Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys
99          195          200          205
100 Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu
101          210          215          220
102 Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
103 225          230          235          240
104 Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn

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TIME: 15:07:33

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590691.raw

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105          245          250          255
106 Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr
107          260          265          270
108 Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met
109          275          280          285
110 Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln
111          290          295          300
112 Arg Ile
113 305
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 306
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 3
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123 1          5          10          15
124 His Gln Ser Asn Thr Ser Phe Ile Lys Leu Asn Asn Asn Gly Phe Glu
125          20          25          30
126 Asp Ile Val Ile Val Ile Asp Pro Ser Val Pro Glu Asp Glu Lys Ile
127          35          40          45
128 Ile Glu Gln Ile Glu Asp Met Val Thr Thr Ala Ser Thr Tyr Leu Phe
129          50          55          60
130 Glu Ala Thr Glu Lys Arg Phe Phe Phe Lys Asn Val Ser Ile Leu Ile
131 65          70          75          80
132 Pro Glu Asn Trp Lys Glu Asn Pro Gln Tyr Lys Arg Pro Lys His Glu
133          85          90          95
134 Asn His Lys His Ala Asp Val Ile Val Ala Pro Pro Thr Leu Pro Gly
135          100         105         110
136 Arg Asp Glu Pro Tyr Thr Lys Gln Phe Thr Glu Cys Gly Glu Lys Gly
137          115         120         125
138 Glu Tyr Ile His Phe Thr Pro Asp Leu Leu Leu Gly Lys Lys Gln Asn
139          130         135         140
140 Glu Tyr Gly Pro Pro Gly Lys Leu Phe Val His Glu Trp Ala His Leu
141 145         150         155         160
142 Arg Trp Gly Val Phe Asp Glu Tyr Asn Glu Asp Gln Pro Phe Tyr Arg
143          165         170         175
144 Ala Lys Ser Lys Lys Ile Glu Ala Thr Arg Cys Ser Ala Gly Ile Ser
145          180         185         190
146 Gly Arg Asn Arg Val Tyr Lys Cys Gln Gly Gly Ser Cys Leu Ser Arg
147          195         200         205
148 Ala Cys Arg Ile Asp Ser Thr Thr Lys Leu Tyr Gly Lys Asp Cys Gln
149          210         215         220
150 Phe Phe Pro Asp Lys Val Gln Thr Glu Lys Ala Ser Ile Met Phe Met
151 225         230         235         240
152 Gln Ser Ile Asp Ser Val Val Glu Phe Cys Asn Glu Lys Thr His Asn
153          245         250         255
154 Gln Glu Ala Pro Ser Leu Gln Asn Ile Lys Cys Asn Phe Arg Ser Thr
155          260         265         270
156 Trp Glu Val Ile Ser Asn Ser Glu Asp Phe Lys Asn Thr Ile Pro Met

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/590,691

DATE: 09/06/2006

TIME: 15:07:33

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590691.raw

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157          275          280          285
158 Val Thr Pro Pro Pro Pro Pro Val Phe Ser Leu Leu Lys Ile Arg Gln
159          290          295          300
160 Arg Ile
161 305
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 304
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 4
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171 1          5          10          15
172 Ser Glu Leu Pro Phe Leu Gly Ala Gly Val Gln Leu Gln Asp Asn Gly
173          20          25          30
174 Tyr Asn Gly Leu Leu Ile Ala Ile Asn Pro Gln Val Pro Glu Asn Gln
175          35          40          45
176 Asn Leu Ile Ser Asn Ile Lys Glu Met Ile Thr Glu Ala Ser Phe Tyr
177          50          55          60
178 Leu Phe Asn Ala Thr Lys Arg Arg Val Phe Phe Arg Asn Ile Lys Ile
179 65          70          75          80
180 Leu Ile Pro Ala Thr Trp Lys Ala Asn Asn Asn Ser Lys Ile Lys Gln
181          85          90          95
182 Glu Ser Tyr Glu Lys Ala Asn Val Ile Val Thr Asp Trp Tyr Gly Ala
183          100          105          110
184 His Gly Asp Asp Pro Tyr Thr Leu Gln Tyr Arg Gly Cys Gly Lys Glu
185          115          120          125
186 Gly Lys Tyr Ile His Phe Thr Pro Asn Phe Leu Leu Asn Asp Asn Leu
187          130          135          140
188 Thr Ala Gly Tyr Gly Ser Arg Gly Arg Val Phe Val His Glu Trp Ala
189 145          150          155          160
190 His Leu Arg Trp Gly Val Phe Asp Glu Tyr Ile Asn Asp Lys Pro Phe
191          165          170          175
192 Tyr Ile Asn Gly Gln Asn Gln Ile Lys Val Thr Arg Cys Ser Ser Asp
193          180          185          190
194 Ile Thr Gly Ile Phe Val Cys Glu Lys Gly Pro Cys Pro Gln Glu Asn
195          195          200          205
196 Cys Ile Ile Ser Lys Leu Phe Lys Glu Gly Cys Thr Phe Ile Tyr Asn
197          210          215          220
198 Ser Thr Gln Asn Ala Thr Ala Ser Ile Met Phe Met Gln Ser Leu Ser
199 225          230          235          240
200 Ser Val Val Glu Phe Cys Asn Ala Ser Thr His Asn Gln Glu Ala Pro
201          245          250          255
202 Asn Leu Gln Asn Gln Met Cys Ser Leu Arg Ser Ala Trp Asp Val Ile
203          260          265          270
204 Thr Asp Ser Ala Asp Phe His His Ser Phe Pro Met Asn Gly Thr Glu
205          275          280          285
206 Leu Pro Pro Pro Pro Thr Phe Ser Leu Val Gln Ala Gly Asp Lys Val
207          290          295          300
210 <210> SEQ ID NO: 5

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RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/590,691

TIME: 15:07:33

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590691.raw

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212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
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217 1 5 10 15
218 Leu Lys Ser Ser Leu Val Thr Leu Asn Asn Asn Gly Tyr Asp Gly Ile
219 20 25 30
220 Val Ile Ala Ile Asn Pro Ser Val Pro Glu Asp Glu Lys Leu Ile Gln
221 35 40 45
222 Asn Ile Lys Glu Met Val Thr Glu Ala Ser Thr His Leu Phe His Ala
223 50 55 60
224 Thr Lys Lys Gln Arg Ala Tyr Phe Arg Asn Val Ser Ile Leu Ile Pro Met
225 65 70 75 80
226 Thr Tyr Lys Ser Lys Ser Glu Tyr Leu Ile Pro Lys Gln Glu Thr Tyr
227 85 90 95
228 Asp Gln Ala Asp Val Ile Val Ala Asp Leu Tyr Leu Lys Tyr Gly Asp
229 100 105 110
230 Asp Pro Tyr Thr Leu Gln Tyr Gly Gln Cys Gly Asp Lys Gly Gln Tyr
231 115 120 125
232 Ile His Phe Thr Pro Asn Phe Leu Leu Thr Asn Asn Leu Ala Thr Tyr
233 130 135 140
234 Gly Pro Arg Gly Lys Val Phe Val His Gly Trp Ala His Leu Arg Trp
235 145 150 155 160
236 Gly Val Phe Asp Glu Tyr Asn Val Asp Gln Pro Phe Tyr Ile Ser Arg
237 165 170 175
238 Arg Asn Thr Thr Glu Ala Thr Arg Cys Ser Thr Arg Ile Thr Val Tyr
239 180 185 190
240 Met Val Leu Asn Glu Cys Lys Gly Ala Ser Cys Ile Ala Arg Pro Phe
241 195 200 205
242 Arg Arg Asp Ser Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr Phe Ile
243 210 215 220
244 Pro Lys Arg Ser Gln Thr Ala Lys Glu Ser Ile Val Phe Met Gln Asn
245 225 230 235 240
246 Leu Asp Ser Val Thr Glu Phe Cys Thr Glu Lys Thr His Asn Lys Glu
247 245 250 255
248 Ala Pro Asn
251 <210> SEQ ID NO: 6
252 <211> LENGTH: 279
253 <212> TYPE: PRT
254 <213> ORGANISM: Mus musculus
256 <400> SEQUENCE: 6
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258 1 5 10 15
259 Pro Arg Val Pro Glu Asp Leu Lys Leu Ile Thr Asn Ile Lys Glu Met
260 20 25 30
261 Ile Thr Glu Ala Ser Phe Tyr Leu Phe Asn Ala Thr Lys Arg Arg Val
262 35 40 45
263 Phe Phe Arg Asn Val Gln Ile Leu Val Pro Ala Thr Trp Thr Asp His

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/590,691

DATE: 09/06/2006
TIME: 15:07:34

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\09062006\J590691.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; Xaa Pos. 49,263
Seq#:17; Xaa Pos. 267
Seq#:20; Xaa Pos. 39,61,65,77,168,171,172,197
Seq#:23; Xaa Pos. 186,192
Seq#:44; Xaa Pos. 1,6

VERIFICATION SUMMARY

DATE: 09/06/2006

PATENT APPLICATION: US/10/590,691

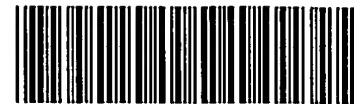
TIME: 15:07:34

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09062006\J590691.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:48
M:341 Repeated in SeqNo=14
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:256
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
M:341 Repeated in SeqNo=20
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:176
L:1632 M:283 W: Missing Blank Line separator, <220> field identifier
L:1666 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 09/05/2006

PATENT APPLICATION: US/10/590,691

TIME: 15:06:26

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09052006\J590691.raw

3 <110> APPLICANT: Lepist, Matti
 4 Pawlowski, Kryzysztof
 6 <120> TITLE OF INVENTION: Methods for Identifying Compounds Capable of Modulating the
 7 Hydrolase Activity of CLCA Protein
 9 <130> FILE REFERENCE: 06275-519US1
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/590,691
 C--> 11 <141> CURRENT FILING DATE: 2006-08-25
 11 <150> PRIOR APPLICATION NUMBER: PCT/SE2005/000316
 12 <151> PRIOR FILING DATE: 2005-03-03
 14 <150> PRIOR APPLICATION NUMBER: SE 0400564-1
 15 <151> PRIOR FILING DATE: 2004-03-05
 17 <160> NUMBER OF SEQ ID NOS: 44
 19 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

Does Not Comply
 Corrected Diskette Needed

535 <210> SEQ ID NO: 12
 536 <211> LENGTH: 308
 537 <212> TYPE: PRT
 538 <213> ORGANISM: Bos taurus
 540 <400> SEQUENCE: 12
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 544 20 25 30
 545 Gly Ile Val Ile Ala Ile Asn Pro Ser Val Pro Glu Asp Glu Lys Leu
 546 35 40 45
 547 Ile Gln Asn Ile Lys Glu Met Val Thr Glu Ala Ser Thr Tyr Leu Phe
 548 50 55 60
 549 His Ala Thr Lys Arg Arg Val Tyr Phe Arg Asn Val Ser Ile Leu Ile
 550 65 70 75 80
 551 Pro Met Thr Trp Lys Ser Lys Ser Glu Tyr Leu Met Pro Lys Gln Glu
 552 85 90 95
 553 Ser Tyr Asp Gln Ala Glu Val Ile Val Ala Asn Pro Tyr Leu Lys His
 554 100 105 110
 555 Gly Asp Asp Pro Tyr Thr Leu Gln Tyr Gly Arg Cys Gly Glu Lys Gly
 556 115 120 125
 557 Gln Tyr Ile His Phe Thr Pro Asn Phe Leu Leu Thr Asn Asn Leu Pro
 558 130 135 140
 559 Ile Tyr Gly Ser Arg Gly Arg Ala Phe Val His Glu Trp Ala His Leu
 560 145 150 155 160
 561 Arg Trp Gly Ile Phe Asp Glu Tyr Asn Gly Asp Gln Pro Phe Tyr Ile

RAW SEQUENCE LISTING

DATE: 09/05/2006

PATENT APPLICATION: US/10/590,691

TIME: 15:06:26

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09052006\J590691.raw

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562                               165                               170                               175
563 Ser Arg Arg Asn Thr Ile Glu Ala Thr Arg Cys Ser Thr His Ile Thr
564                               180                               185                               190
565 Gly Thr Asn Val Ile Val Lys Cys Gln Gly Gly Ser Cys Ile Thr Arg
566                               195                               200                               205
567 Pro Cys Arg Arg Asp Ser Gln Thr Gly Leu Tyr Glu Ala Lys Cys Thr
568                               210                               215                               220
569 Phe Ile Pro Glu Lys Ser Gln Thr Ala Arg Glu Ser Ile Met Phe Met
E--> 570 25225 230→ 235→ 240→ edit numbering
571 Gln Ser Leu His Ser Val Thr Glu Phe Cys Thr Glu Lys Thr His Asn
572                               245                               250                               255
573 Val Glu Ala Pro Asn Leu Gln Asn Lys Met Cys Asn Gly Lys Ser Thr
574                               260                               265                               270
575 Trp Asp Val Ile Met Asn Ser Thr Asp Phe Gln Asn Thr Ser Pro Met
576                               275                               280                               285
577 Thr Glu Met Asn Pro Pro Thr Gln Pro Thr Phe Ser Leu Leu Lys Ser
578                               290                               295                               300
579 Lys Gln Arg Val
580 305

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VERIFICATION SUMMARY

DATE: 09/05/2006

PATENT APPLICATION: US/10/590,691

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Input Set : A:\pto.da.txt

Output Set: N:\CRF4\09052006\J590691.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:570 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:48
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:256
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:256
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:48
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:64
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:160
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:192
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:176
L:1632 M:283 W: Missing Blank Line separator, <220> field identifier
L:1666 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0